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MALDON  
RURAL DISTRICT COUNCIL

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*Annual Report*

OF THE  
**MEDICAL OFFICER OF HEALTH**

(JOHN F. MACDONALD, M.D., D.P.H.)

FOR

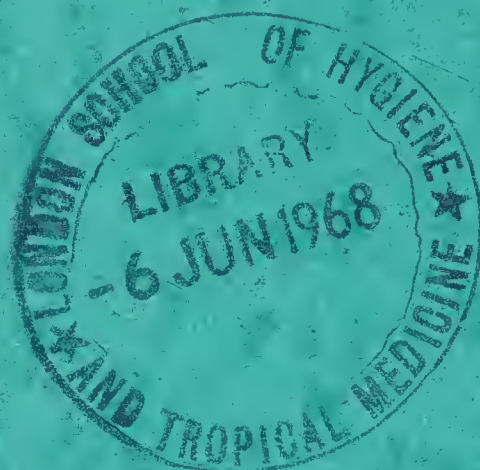
*1945*

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SOUTHEND-ON-SEA

W. H. Houldershaw, Ltd., Printers, 49-55, London Road,

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COUNCIL OFFICES,  
LONDON ROAD,  
CHELMSFORD

*19th July, 1946.*

**To the Chairman and Members of the  
Maldon Rural District Council.**

MR. CHAIRMAN, LADIES AND GENTLEMEN,

I have the honour of presenting for your consideration my Annual Report on the health and sanitary circumstances of your district for the year 1945.

The Birth Rate for the year 1945 was 16.9 per 1,000 of the population, as against 19.5 for the previous year.

During the year, the Council has given great consideration to the erection of Council houses. This does not show itself in the number of houses erected, but when labour and materials are in better supply, no doubt it will be reflected in the progress during the following years.

After over forty years with the Council, Mr. Almond, Surveyor and Water Engineer, resigned. During these years, he carried out his duties with exceptional ability. For his great assistance during many years, I am indeed grateful to him. I am glad the Council appreciate his services by appointing him in a consulting capacity. He has such store of local knowledge.

For assistance rendered in the preparation of this report, I am indebted to my colleagues.

For the sympathetic consideration and assistance received during the year, I beg to thank the Council.

I am,

Your obedient servant,

JOHN F. MACDONALD.

## PUBLIC HEALTH OFFICERS.

<i>Clerk to the Rural District Council</i>	L. H. Hiscott
<i>Assistant Clerk ... ..</i>	H. J. Freeman, Solicitor.
<i>Medical Officer of Health ...</i>	John F. Macdonald, M.D., Ch.B., D.P.H., who also acts in this capacity for the Rural Districts of Chelmsford and Rochford.
<i>Clerk to Medical Officer of Health.</i>	M. C. Barton (in H.M. Forces) Mrs. M. Marshall resigned and Mrs. J. D. Cockrill was appointed. Mr. Barton re- turned to duty early in 1946 from H.M. Forces, having at- tained the rank of Major.
<i>Surveyor and Water Engineer...</i>	W. Almond, A.R.San.I., re- signed 30th November, 1945 when he was appointed as Consultant. T. C. Arrandale, M.I.M.Cy.E., M.R.San.I. Commenced duties 14th November, 1945.
<i>Sanitary Inspector ... ..</i>	G. L. Turner, M.R.San.I., Qualified Inspector of Meat and other Foods. Commenced duties 16th July, 1945. Mr. G. F. Mellor, resigned from the post of Sanitary Inspector, February, 1945.
<i>Assistant Surveyor ... ..</i>	A. G. E. Peters.
<i>Housing Survey Assistant ...</i>	E. A. Arnold.



# REPORT

## OF THE

# Medical Officer of Health

### For the Year 1945

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#### STATISTICS AND SOCIAL CONDITIONS OF THE AREA

Area (acres)	...	...	78,507	(land and inland water)
Registrar General's estimate of civilian population 1945	12,700			
Census Population, 1931	...	...	...	13,348 (new area)
Rateable Value at 1st April, 1945	...	...	...	£76,863
Product of a Penny Rate for the year ending				
31st March, 1946	...	...	...	£335 : 0 : 0

Except in certain centres, the district is very sparsely populated. Most of the population is directly or indirectly dependent upon agriculture, nearly 50 per cent of the adult male population being directly employed in the industry.

#### EXTRACTS FROM THE VITAL STATISTICS OF THE YEAR.

		Total	Males	Females	
Live Births	{ Legitimate	186	116	70	Birth Rate per 1,000 of the estimated resident population ... 16.9
	{ Illegitimate	28	15	13	
Still Births	{ Legitimate	7	3	4	Rate per 1,000 total (live and still) Births ... 36.0
	{ Illegitimate	1	1	—	
Deaths	...	185	97	88	Death Rate per 1,000 of the estimated resident population ... 14.6

## Deaths from Puerperal causes:—

From Puerperal and Post-abortion sepsis	...	—
From other Maternal causes	... ..	2

## Number of deaths of infants under 1 year of age:—

Males 5 (illegitimate 0), Females 5 (illegitimate 1)      Total 10

## Deaths of Infants under 1 year of age:—

Legitimate per 1,000 Legitimate Live Births	...	48.4
Illegitimate „ „ Illegitimate „ „	... ..	35.7
All Infants „ „ Live Births	... ..	46.7

Deaths from Cancer (all ages)	... ..	30
„ „ Measles (all ages)	... ..	Nil
„ „ Whooping Cough (all ages)	... ..	Nil
„ „ Diarrhoea (under 2 years of age)	... ..	1

The following tabular statements give details of the number of deaths classified according to age and cause:—

Age				Number of deaths			
				Occurring in district	Of non-residents occurring in district	Of residents occurring outside district	Allotted district
Under 1 year	...	...	...	6	—	4	10
1 and under	2	...	...	—	—	—	—
2 „ „	5	...	...	1	—	—	1
5 „ „	15	...	...	1	—	1	2
15 „ „	25	...	...	3	1	1	3
25 „ „	35	...	...	3	—	3	6
35 „ „	45	...	...	2	1	2	3
45 „ „	55	...	...	5	2	7	10
55 „ „	65	...	...	15	1	16	30
65 „ „	75	...	...	33	4	10	39
75 and over	...	...	...	68	6	19	81
TOTALS	...	...	...	137	15	63	185



Causes of Death	Males	Females	Totals
Typhoid and Paratyphoid Fever ...	—	—	—
Measles ... ..	—	—	—
Scarlet Fever ... ..	—	—	—
Whooping Cough ... ..	—	—	—
Diphtheria ... ..	—	—	—
Influenza ... ..	—	1	1
Acute Poliomyelitis and Polioencephalitis	—	—	—
Acute Inf. Encephalitis ... ..	—	—	—
Cerebro Spinal Fever ... ..	—	—	—
Tuberculosis of Respiratory System ...	2	1	3
Other Tuberculous Diseases ... ..	—	—	—
Syphilitic Diseases ... ..	—	—	—
Cancer Malignant Disease ... ..	20	10	30
Diabetes ... ..	2	1	3
Intra Cranial vascular lesions ... ..	10	12	22
Heart Disease ... ..	25	32	57
Other Circulatory Diseases ... ..	4	4	8
Bronchitis ... ..	4	4	8
Pneumonia ... ..	6	—	6
Other Respiratory Diseases ... ..	1	1	2
Ulcer of Stomach or Duodenum ... ..	2	—	2
Diarrhoea (under 2 years) ... ..	1	—	1
Appendicitis ... ..	—	—	—
Other Digestive Diseases ... ..	1	4	5
Nephritis ... ..	—	—	—
Puerperal and Post Abortive Sepsis ...	—	—	—
Other Maternal causes ... ..	—	2	2
Malformation etc. ... ..	3	2	5
Premature Birth ... ..	—	2	2
Suicide ... ..	2	1	3
Road Traffic accidents ... ..	1	1	2
Other Violent causes ... ..	4	—	4
All other causes ... ..	9	10	19
Totals ... ..	97	88	185

## COMPARATIVE TABLE OF BIRTH AND DEATH RATES DURING THE YEAR, 1945.

	Rate per 1 000 civilian population		Deaths under 1 year per 1 000 registered live births
	Live Births	Deaths from all causes	
England and Wales ...	16.1	11.4	46
126 County Boroughs and Great Towns including London ... ..	19.1	13.5	54
148 Smaller Towns with Resident Population of from 25,000 to 50,000 (1931 Census) ... ..	19.2	12.3	43
Maldon Rural District ...	16.9	14.6	46.7

The natural increase in the population, namely, the excess in the number of live births over the number of deaths, is shown in the following tabular statement for each of the nine years 1937—1945.

Year	No. of Births	No. of Deaths	Natural Increase
1937 ...	165	170	— 5
1938 ...	174	193	—19
1939 ...	154	185	—31
1940 ...	188	207	—19
1941 ...	202	201	+ 1
1942 ...	205	196	+ 9
1943 ...	193	204	—11
1944 ...	255	174	+81
1945 ...	214	185	+29

### GENERAL PROVISION OF HEALTH SERVICES FOR THE AREA.

Hospitals provided or subsidised by the Local Authority or by the Essex County Council:—

FEVER HOSPITAL (administered by a Joint Hospital Board on which are representatives of the Rural District Council). The Isolation Hospital at Heybridge, which was completed during 1903, comprises an Administrative Block, a Ward Block for ten beds, and a Laundry and Disinfecting Block

There is also a Porter's Lodge with five rooms. There are two wooden huts, built in sections, which can accommodate 18 beds.

**SMALLPOX HOSPITAL.** The Essex County Council is now the authority for providing accommodation for the treatment of cases of Smallpox in your area. Under an agreement between the County Council and the Borough of Colchester, a Smallpox Hospital has been erected by the latter and is available for cases occurring in your district. The agreement also includes ambulance services for Smallpox cases.

**TUBERCULOSIS.** A number of Sanatoria are available throughout the County, provided by the Essex County Council.

**MATERNITY.** Arrangements are made under the County Council's Scheme for certain Hospitals to admit :

- (a) complicated cases of confinement,
- (b) cases that cannot be safely left at home, and
- (c) cases of Puerperal Pyrexia.

Under (a) and (b) provision made at St. John's Hospital, Chelmsford, and Colchester Borough Maternity Home, and in addition for normal confinement cases accommodation is available at Danbury Park Maternity Home and Emergency Maternity Home, Writtle Park, near Chelmsford. (These homes were closed early in 1946).

For patients suffering from puerperal pyrexia accommodation is available at :—

Colchester, Rush Green, Romford, Waltham Abbey, and Billericay, Isolation Hospitals.

**CHILDREN.** Arrangements have been made by the County Council to enable children under 5 years to attend the School Orthopaedic Ascertainment Clinic, and institutional treatment is available for suitable orthopaedic cases.

**OTHER HOSPITALS.** There is no General Hospital in the district, and cases requiring in-patient treatment at a General Hospital are sent to Chelmsford, Colchester or one of the London Hospitals.

In the Borough of Maldon there is St. Peter's Hospital provided by the Public Assistance Committee.



INSTITUTIONAL PROVISION FOR UNMARRIED MOTHERS, ILLEGITIMATE INFANTS AND HOMELESS CHILDREN IN THE AREA. Provisions made by the Public Assistance Committee at certain of their institutions. Suitable cases can be admitted to the Hostel for mothers and babies, Ardmore, Buckhurst Hill.

#### AMBULANCE FACILITIES.

(a) For infectious cases a motor ambulance is stationed at the Heybridge Fever Hospital.

(b) For non-infectious and accident cases, use is made of Borough of Maldon Ambulance upon payment. There is an agreement in force for the reciprocal use of ambulances throughout the County of Essex. The provision of an ambulance for the rural district should be considered.

CLINICS AND TREATMENT CENTRES (provided by the County Council).

#### *Tuberculosis Dispensary :*

Combined Treatment Centre, Wantz Chase, Maldon ;  
2nd and 4th Thursdays—10 a.m.—12 noon.

#### *Maternity and Child Welfare Centres :*

Mayland	Old School, Upper Mayland	1st Thursday in each month 2.30 p.m.	Dr. Glennie.
Bradwell	Church School	4th Wednesday in each month 2.30 p.m.	Dr. Glennie.
South- minster	Baptist Chapel School Room	4th Monday in each month 2.30 p.m.	Dr. Glennie.
Tollesbury	Infant School	1st and 3rd Tuesdays in each month 1.45 p.m.	Dr. Rankine.
Wickham Bishops	Church Room	2nd and 4th Wednesdays in each month 2.30 p.m.	Dr. Shaw.
Cold Norton	Cold Norton Hall	4th Tuesday in each month 2 p.m.	Dr. Turner.

†Woodham Walter	Women's Institute Club Room	3rd Thursday in each month 2 p.m.	Dr. Rankine.
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†This clinic has the Medical Officer in attendance only when there are 5 Thursdays in the month and the clinic is held on that Thursday instead of 3rd Thursday.

Goldhanger	Village Hall	3rd Thursday in each month 2.30 p.m.	Dr. Rankine.
Tolleshunt D'Arcy	Village Hall	1st Thursday in each month 2.30 p.m.	Weighing Centre No Doctor.
Latchingdon	Village Hall	3rd Tuesday in each month 2.30 p.m.	Dr. Glennie.

#### *Ante-Natal Clinics :*

Health Centre Wantz Chase, Maldon	1st & 3rd Tuesday in each month 9.30 a.m.	Dr. Mary D. Rankine.
Old School Upper Mayland	Last Friday in each month 2.30 p.m.	Dr. Glennie.
Infant School Tollesbury	1st Tuesday 1.45 p.m.	Dr. Rankine.
Village Hall Goldhanger	3rd Thursday in each month 2 p.m.	Dr. Rankine.

Ophthalmia Neonatorum. Arrangements are made for hospital treatment or skilled nursing in the homes where found necessary. (Rush Green Isolation, Romford and Oldchurch County Hospital.)

#### *School Clinics :*

Orthopaedic After Treatment Centre	Health Centre, Wantz Chase, Maldon	2nd and 4th Tuesdays in each month 2 to 4.30 p.m.
Minor Ailments Clinic	do. do.	Fridays 9—12 noon

Arrangements are made for children seen at the Orthopaedic clinic requiring hospital treatment to be admitted to the Lodge Hospital, Orsett and Oldchurch County Hospital, Romford.

Dental and Eye Clinics are also held at the Maldon Health Centre and other places in the district as and when required.

For operative treatment for the removal of Adenoids and enlarged Tonsils arrangements have been made by the Essex County Education Committee at the following hospitals:—

Chelmsford and Essex, Chelmsford ; St. John's, Chelmsford ; and Essex County, Colchester.

#### *Treatment Centres for Venereal Diseases :*

These are situated at Chelmsford and Colchester Hospitals, Oldchurch County Hospital, Romford, and a number of London General Hospitals.

#### PROFESSIONAL NURSING IN THE HOME.

(a) General. No arrangements have been made by the District Council, but for General Nursing there are a number of local Nursing Associations throughout the district which employ nurse midwives. These are under the supervision of the County Nursing Association and the District Council has no direct or indirect control over these Associations.

(b) Infectious Diseases. No arrangements have been made by the District Council.

REGISTERED NURSING HOMES. There is one in the district.

MIDWIVES. None is subsidized by the District Council. There were 10 midwives practising in the district at the end of 1945. Of these 9 are district nurses and 1 is in private practice.

LABORATORY FACILITIES. These services are provided by the Essex County Council.

TREATMENT OF DIABETES. During the year, Insulin has been supplied free to one person suffering from Diabetes, for whom no other public provision was made.



## INSPECTION AND SUPERVISION OF FOOD.

### Milk Supply.

There are 170 cowkeepers and 52 retail purveyors of milk in the district, 74 are licensed to produce accredited milk, and 14 to produce Tuberculin Tested Milk. Three supplementary licences to sell Pasteurised Milk were granted.

### Meat and Other Foods.

Owing to the Ministry of Food Control and Centralizing of Slaughtering there are now no slaughterhouses in use in the district. Visits have been made to the butchers' shops, vans and food shops.

## WATER SUPPLY.

By the end of 1945 a piped water supply from mains owned by the District Council was available to 86 per cent of the population. The figures for each parish is set out in the following table.

The supply was obtained from three local works :—

Springs at Woodham Walter.

Springs at Asheldham.

Deep well at Tollesbury.

The supplies from these three works are chlorinated.

During the year the extension of 2,770 yards of a 3-inch watermain the parish of Little Braxted was completed. It provides a piped water supply to a dairy farm and a number of cottages.

Under the Southend Waterworks Act and the South Essex Waterworks Act, the District Council has certain legal rights to be supplied by these companies with a bulk supply of water. During 1945 the Council took over  $2\frac{1}{2}$  million gallons from Southend Waterworks Co., mains.

During 1934 the Council reserved 150,000 gallons daily from the South Essex Waterworks Company.

During 1945 the Council took over 109 million gallons of water which is twice the reservation quantity. The cost was £5,295, equivalent to about 11½d. per 1,000 gallons.

# RECORD OF HABITABLE HOUSES AND WATER SUPPLY AS AT 31st DECEMBER, 1945.

PARISH	Habitable Houses	No. of Houses on Domestic Water Supply	WATER METER SUPPLIES			Within 100 yds. of water main but not supplied	Where piped water supply is not available	War Services
			Domestic	Domestic & Trade	Trade			
Althorne ...	156	149	—	15	1	—	7	—
Asheldham ...	47	36	—	6	1	5	6	—
Bradwell-on-Sea ...	243	170	—	12	7	60	13	25
Braxted, Great ...	103	28	—	4	1	18	57	—
Braxted, Little ...	44	40	—	2	2	—	4	—
Cold Norton ...	129	128	—	7	6	1	—	—
Dengie ...	48	39	—	7	3	3	6	—
Fambridge North ...	93	91	—	3	1	—	2	—
Goldhanger ...	139	109	—	4	2	21	9	—
Hazeleigh ...	37	37	1	3	—	—	16	1
Langford ...	49	28	—	—	—	5	—	—
Latchingdon ...	231	231	—	13	6	—	—	—
Mayland ...	146	141	—	21	11	—	5	—
Mundon ...	79	79	—	11	1	—	—	—
Purleigh ...	291	288	—	32	15	—	3	—
St. Lawrence ...	90	47	—	11	7	1	42	1
Southminster ...	475	423	2	17	12	4	48	—
Steeple ...	113	84	—	10	1	9	20	1
Stow Maries ...	53	53	—	7	4	—	—	—
Tillingham ...	243	178	—	11	4	33	32	1
Tollesbury ...	543	509	1	5	7	11	23	—
Tolls, D'Arcy ...	253	161	1	10	6	50	42	—
Tolls, Knights ...	135	134	—	5	7	1	—	—
Tolls, Major ...	121	72	—	4	1	24	25	—
Great Totham ...	359	296	3	9	6	40	23	—
Little Totham ...	84	58	—	7	2	10	16	—
Ulting ...	46	—	—	—	—	—	46	—
Wickham Bishops ...	245	187	—	1	3	34	44	—
Woodham Mortimer ...	85	80	1	5	3	—	5	—
Woodham Walter ...	159	73	—	1	4	25	61	—
	4839	3949	9	243	124	355	555	29

# **SOUTH ESSEX WATERWORKS COMPANY**

## **Analysis of Samples of Water Pumped from the Works at Langham and Layer-de-la-Haye.**

(CHEMICAL RESULTS IN PARTS PER MILLION)

	Langham		Layer-de-la-Haye	
<i>Date (1945)</i>	<i>29th May</i>	<i>11th Dec.</i>	<i>31st May</i>	<i>20th Dec.</i>
Appearance ...	Clear and bright	Clear and bright	Clear and bright	Clear and bright
Colour A.P.H.A. ...	9	13	8	8
Turbidity, silica scale	Nil	Nil	Nil	Nil
Odour ...	Nil	Nil	Nil	Nil
Taste ...	Nil	Nil	Nil	Nil
Electric conductivity				
20° C. ...	600	700	510	470
Total solids 180° C.	400	470	340	310
Reaction P.H. ...	7.5	7.9	7.7	7.7
"Free Chlorine" ...	0.30	0.35	0.27	0.25
Chlorides as Cl. ...	39	41	37	39
Total Oxidised Nitrogen ...	1.1	2.6	1.3	0.71
Nitrites as N ...	Less than 0.001	Less than 0.001	Less than 0.001	Less than 0.001
Hardness, Permanent	114	104	108	104
Temporary	198	264	134	110
Total ...	312	368	242	214
Free Ammonia ...	0.12	0.16	0.17	0.14
Albuminoid Ammon.	0.10	0.091	0.14	0.21
Oxygen absorbed				
4 hrs. 27° C. ...	1.05	1.23	1.30	1.43
Metals ...	Fc 0.01	—	—	—
Colony Count per m.l. on Agar 1 day at 37° C. ...	4	14	5	5
Ditto 3 days at 20° C.	27	28	20	33
Presumptive coli absent in ...	100 m.l.	100 m.l.	100 m.l.	100 m.l.
Bact. Coli absent in	100 m.l.	100 m.l.	100 m.l.	100 m.l.
Cl. Welchii:				
Present in ...		100 m.l.		
Absent in ...	100 m.l.	10 m.l.	100 m.l.	100 m.l.



## Sample of Water from the Mains of the Southend Waterworks Company.

*Chemical results in parts per 100,000.*

Appearance ...	...	...	...	...	Clear and bright
Colour ...	...	...	...	...	Normal
Odour ...	...	...	...	...	Nil
Reaction pH ...	...	...	...	...	Ft. Alkaline 8.5
Free Carbonic Acid	...	...	...	...	Absent
Electric Conductivity at 20° C.	...	...	...	...	510
Total Solids, 180° C.	...	...	...	...	34.0
Chlorine in Chlorides	...	...	...	...	4.3
Nitrogen in Nitrates	...	...	...	...	0.44
Nitrites ...	...	...	...	...	Less than 0.001
Hardness : Permanent	...	...	...	...	15.5
Temporary	...	...	...	...	0.5
Total	...	...	...	...	16.0
Metals ...	...	...	...	...	Iron less than 0.003
					Other metals absent
Free Ammonia ...	...	...	...	...	0.0018
Albuminoid Ammonia ...	...	...	...	...	0.0056
Oxygen absorbed in 4 hrs. at 27° C. ...	...	...	...	...	0.070
Free Chlorine reaction at Sampling tap					Absent.

### *Bacteriological results.*

No. of Bacteria per c.c. :—

On Agar in 3 days at 20° C.	...	2
„ „ 1 day at 37° C.	...	1
„ „ 2 days at 37° C.	...	2
The Bacillus Coli ...	...	Absent in 100 c.c.
Cl. Welchii Reaction	...	Present in 100 c.c.
		Absent in 10 c.c.
Presumptive Coliform Reaction ...	...	Absent in 100 c.c.

This sample is practically clear and bright in appearance having only a few particles of matter in suspension. It is very faintly alkaline in reaction and free from metals apart from a negligible trace of iron. The water is moderately hard in character and contains no excess of salinity or mineral constituents in solution. It is of satisfactory organic quality and of a high standard of bacterial purity.

These results are consistent with a pure and wholesome water suitable for drinking and domestic purposes.

## Sample of Water from Asheldham Waterworks.

### *Chemical results in parts per 100,000.*

Appearance	...	...	...	...	Clear and bright
Colour	...	...	...	...	Normal
Odour	...	...	...	...	Nil
Reaction pH	...	...	...	...	Acid 5.9
Free Carbonic Acid	...	...	...	...	1.8
Electric Conductivity at 20° C.	...	...	...	...	370
Total Solids, 180° C.	...	...	...	...	25.0
Chlorine in Chlorides	...	...	...	...	3.0
Nitrogen in Nitrates	...	...	...	...	1.5
Nitrites	...	...	...	...	Absent
Hardness : Permanent	...	...	...	...	13.5
Temporary	...	...	...	...	0.0
Total	...	...	...	...	13.5
Metals	...	...	...	...	Iron : 0.004
					Other metals absent
Free Ammonia	...	...	...	...	0.0020
Albuminoid Ammonia	...	...	...	...	0.0002
Oxygen absorbed in 4 hrs. at 27° C.	...	...	...	...	0.000
Free Chlorine reaction	...	...	...	...	Absent.

### *Bacteriological results.*

No. of Bacteria per c.c. or ml. :—

On Agar in 3 days at 20° C.	...	—
„ „ „ 1 day at 37° C.	...	2
„ „ „ 2 days at 37° C.	...	3
The Bact. Coli.	...	Absent in 100 c.c.
Cl. Welchii Reaction	...	Absent in —
Presumptive Coliform Reaction	...	Absent in 100 c.c.

This sample is clear and bright in appearance and free from metals apart from a negligible trace of iron. The water is acid in reaction, deficient in alkalinity and will be corrosive towards metals and plumbo-solvent. Lead should not therefore be used in conjunction with this supply. The water has moderate hardness and is of satisfactory organic and bacterial purity. It is therefore considered wholesome in character and suitable for drinking and domestic purposes.

## Sample of Water from Woodham Walter Pumping Station.

### *Chemical results in parts per 100,000.*

Appearance	...	...	...	...	Clear and Bright
Colour	...	...	...	...	Normal
Odour	...	...	...	...	Nil
Reaction pH	...	...	...	...	Faint acid : 6.4
Free Carbonic Acid	...	...	...	...	2.3
Electric Conductivity at 20° C.	...	...	...	...	340
Total Solids, 180° C.	...	...	...	...	22.5
Chlorine in Chlorides	...	...	...	...	2.8
Nitrogen in Nitrates	...	...	...	...	0.80
Nitrites	...	...	...	...	Absent
Hardness : Permanent	...	...	...	...	10.0
Temporary	...	...	...	...	2.0
Total	...	...	...	...	12.0
Alkalinity as Calcium Carbonate	...	...	...	...	4.0
Metals	...	...	...	...	Iron 0.005
					Other metals absent
Free Ammonia	...	...	...	...	0.0002
Albuminoid Ammonia	...	...	...	...	0.0004
Oxygen absorbed in 4 hrs. at 27° C.	...	...	...	...	0.005
Free Chlorine reaction	...	...	...	...	Absent.

### *Bacteriological results.*

No. of Bacteria per c.c. or ml. :—

On Agar in 3 days at 20° C.	...	2
„ „ „ 1 day at 37° C.	...	0
„ „ „ 2 days at 37° C.	...	0
The Bacillus Coli	...	Absent in 100 c.c.
Cl. Welchii Reaction	...	Absent in 100 c.c.
Presumptive Coliform Reaction	...	Absent in 100 c.c.

This sample is clear and bright in appearance and free from metals apart from a negligible trace of iron. The water is acid in reaction, has a low content of alkalinity and a corrosive tendency towards metals would be anticipated. Due to the possibility of plumbo-solvent action it would be advisable to avoid the use of lead in conjunction with this supply. The water has very moderate hardness, contains no excess of salinity or mineral constituents in solution and is of a high standard of organic and bacterial purity.

These results are consistent with a wholesome water suitable for the purposes of a public supply.



## **RIVERS AND STREAMS.**

The Rivers Blackwater and Chelmer flow through the district. Neither of these rivers receives polluting matter to any extent while flowing through the Maldon Rural District. The Chelmsford Corporation Water Act, 1923, authorises the Corporation of Chelmsford to abstract water from the River Chelmer near Sandford Mill in the Rural District of Chelmsford—the quantity not to exceed 1,000,000 gallons per day. The Southend Waterworks Act, 1924, authorises the Southend Waterworks Company to abstract water from the River Chelmer near Rushes Lock and from the River Blackwater at Langford. The Southend Waterworks Act provides that the effluent from the Chelmsford Joint Sewerage Works be carried by a pipe past the point of intake at Rushes Lock and the effluent from the Witham Sewage Works beyond the point of intake from the River Blackwater at Langford. The discharge of such large volumes of sewage effluent into the rivers after a good deal of water has been extracted may cause a nuisance.

## **DRAINAGE AND SEWERAGE.**

There are sewers in the parishes of Southminster, Tolleshunt D'Arcy and Tollesbury. Full use is not made of these Sewers. It is doubtful if they are capable of dealing with all the sewage when existing pail closets are converted into water closets.

The Council have under consideration plans of sewerage schemes for the more populous areas of the district.

The consulting Engineers are Messrs. Lemon and Blizard.

During the year, the Council applied to the Ministry of Health for consent to borrow the sum of £9,450 for purposes of Sewerage and Sewage Disposal for the parish of Latchingdon.

A Public Inquiry was held early in 1946 and subsequently the Ministry of Health approved of the scheme.

The parish of Latchingdon had, at the time of the Inquiry, an estimated population of 839 and 202 permanent houses with a further 41 temporary and semi-temporary houses. Sixty seven properties were situated on the line of the existing sewer.

All the permanent houses were provided with a piped water supply.

The scheme, when completed, will provide sewers and sewage disposal for 8, 16 and 3 properties in the parishes of Latchingdon, Purleigh and Mundon respectively.

### **PUBLIC CLEANSING.**

At the end of 1945 scavenging was undertaken by the District Council through contractors as follows :—

Southminster	...	Removal of contents of pail closets and house refuse.
--------------	-----	--

Tollesbury	... ..	Removal of contents of pail closets and house refuse.
------------	--------	--

Woodham Walter	...	Removal of contents of pail closets
----------------	-----	-------------------------------------

Owing to difficulty of labour these services were curtailed.

On the whole these contractors carry out the work satisfactorily, but the time has approached when the District Council should undertake scavenging over a much larger area.

In addition to the above, a monthly collection of tins, bottles and similar refuse and of salvage in 28 parishes is undertaken.

## SANITARY INSPECTION OF THE AREA.

The following table, prepared by the Sanitary Inspector is a classified statement of the number of premises visited, the defects or nuisances discovered, and the action and result of action taken in regard to these. The work was considerably curtailed owing to shortage of staff. The post of Sanitary Inspector was vacant part of the year.

INSPECTIONS				NOTICES		
Nature	Number	Informal	Formal	Total complied with	Outstanding at end of year	
					Informal	Formal
Infectious Diseases Inquiries ...	12	—	—	—	—	—
Disinfections ... ..	2	—	—	—	—	—
Houses Inspected & Recorded ...	78	—	—	—	—	—
Re Overcrowding ... ..	10	—	—	—	—	—
Re Dirty Conditions ... ..	8	1	—	2	—	—
Re Structural Defects in Houses ...	64	12	1	13	6	3
Re Nuisances in Houses ... ..	14	6	—	4	2	—
Re-Inspections for above Inquiries	87	—	—	—	—	—
Privies and Pail Closets ... ..	9	3	—	3	1	1
Water Closets ... ..	1	—	—	1	—	—
House Drainage (all forms) ...	65	30	1	37	10	—
Water Supply ... ..	30	1	—	2	—	—
Schools ... ..	4	—	—	—	—	—
Food Shops ... ..	21	—	—	—	—	—
Cowsheds, Dairies and Milk Shops	157	22	—	36	5	—
Bakehouses ... ..	11	2	—	2	—	—
Offensive Accumulations ... ..	1	1	—	1	—	—
Other Nuisances ... ..	1	—	—	—	—	—
Factories ... ..	2	1	—	1	—	—
Rats, Mice and Insect Pests ...	15	—	—	—	—	—
Tents, Vans and Sheds ... ..	35	—	—	1	—	—
Salvage ... ..	55	—	—	—	—	—
Shops Act ... ..	—	—	—	—	—	—
Miscellaneous ... ..	63	—	—	—	—	—
<b>TOTALS</b> ... ..	<b>745</b>	<b>79</b>	<b>2</b>	<b>103</b>	<b>24</b>	<b>4</b>

**Smoke Abatement.** No cause for action occurred during the year.

**Swimming Baths and Pools.** There is none in use in the district.

**Eradication of Bed Bugs.** Three cases occurred and fumigation proved successful in all cases.



**Knackers' Yards.** There is one in the district, situated in the parish of Purleigh.

**Hostel for Land Workers.** Visits were made to the five hostels in the district. Treatment by D.D.T. for an infestation of bugs in one hostel only.

**Camping Sites.** During the year four licences to use land as camping sites were granted under Section 269 of the Public Health Act, 1936.

**Bakehouses.** There are 19 in the district, situated in the following parishes :—Bradwell 2, Goldhanger 1, Latchingdon 1, Purleigh 2, Southminster 1, Steeple 1, Stow Maries 1, Tillingham 2, Tolleshunt D'Arcy 1, Tolleshunt Major 1, Tollesbury 3, Wickham Bishops 2, and Woodham Walter 1.

Generally speaking these are kept clean, and minor improvements in construction have been made during the year.

## HOUSING.

Throughout the district the cry is for more houses and still more houses.

The District Council has appointed a Post-War Housing Committee. The following table shows the proposed number of houses to be erected during the first year, the extent of the sites, purchased or proposed to be purchased, and the number of houses that could be accommodated on these sites.

First Two Year's Programme				Acreage	Total No. of Houses that could be erected on site	
PARISH			SITE			
Great Braxted ...	6	The Village ... ..	2.00	8	Compulsory Purchase Order applied for.	
Goldhanger ... ..	12	Corner of Maldon Road				
Plus Swedish Houses	8	and Head Street ...	9.7	70	Site purchased.	
Latchingdon ...	8	Church Meadow ...	9.5	56	Site Purchased.	
Mundon ... ..	6	Near Smithy ... ..	2.25	12	Site acquired by Com- pulsory Acquisition Order.	
Purleigh ... ..	6	Walton Hall Lane ...	3.00	18	Site purchased.	
Southminster ...	10	West House ... ..	2.5	18+	Site purchased.	
				West House		
Steeple ... ..	6	Old Allotment Field ...	7.5	46	Site purchased.	
Stow Maries ...	6	Opposite Post Office ...	1.00	6	Site purchased.	
Tillingham ... ..	6	Brook Road ... ..	7.75	50	Site purchased.	
Plus Swedish Houses	8					
Tollesbury ... ..	12	Elysian Gardens ...	6.00	26	Site purchased.	
Tolleshunt D'Arcy	6	Tolleshunt Major Road	7.00	50	Site purchased.	
Great Totham ...	12	Near Bull Inn ... ..	13.7	64	Site acquired by Com- pulsory Purchase Order.	
Wickham Bishops ...	6	Church Road ... ..	5.23	36	Site purchased.	
Woodham Mortimer	6	(Negotiations pending)...				
Woodham Walter ...	8	Near Village Hall ...	2.5	12	Site purchased.	
Little Totham ...	6	Opposite Evelyn Terrace	2.38	16	Site purchased.  Building commenced	
	138					

Number of new houses erected during the year :—

Total	...	...	...	...	...	...	...	Nil.
(i) By the Local Authority					...	...	...	Nil.
(ii) By other bodies and persons					...	...	...	Nil.

## RURAL HOUSING SURVEY.

The following parishes have been surveyed during the Year 1945, and classified as follows :—

### GOLDHANGER

Number of properties within the Parish ...	...	145
--	-----	-----

#### *Classifications :*

(1) Houses fit or with minor defects only ...	...	66
(2) Houses capable of structural alteration or repair ... ..	...	24
(3) Houses capable of re-conditioning ...	...	18
(4) Houses requiring demolition and replacement		37

### MUNDON.

Number of properties within the Parish ...	...	82
--	-----	----

#### *Classifications :*

(1) Houses fit or with minor defects only ...	...	41
(2) Houses capable of structural alteration or repair ... ..	...	15
(3) Houses capable of re-conditioning ...	...	9
(4) Houses requiring demolition and replacement		17

### LITTLE TOTHAM.

Number of properties within the Parish ...	...	79
--	-----	----

#### *Classifications :*

(1) Houses fit or with minor defects only ...	...	42
(2) Houses capable of structural alteration or repair ... ..	...	14
(3) Houses capable of re-conditioning ...	...	16
(4) Houses requiring demolition and replacement		7

**Clearance Areas.** Fifteen houses in the six clearance areas confirmed by the Ministry of Health in 1935 were still occupied at end of 1945 and five were derelict.



The following table classifies the houses erected and owned by the District Council into Parlour and Non-Parlour types.

PARISH	Parlour Type	Non-Parlour Type	Totals
Althorne ... ..	—	—	—
Asheldham ... ..	5	2	7
Bradwell-on-Sea ... ..	12	6	18
Braxted, Great ... ..	—	6	6
Braxted, Little ... ..	—	4	4
Cold Norton ... ..	—	10	10
Dengie ... ..	—	8	8
Fambridge, North ... ..	—	—	—
Goldhanger ... ..	—	28	28
Hazeleigh ... ..	—	6	6
Langford ... ..	—	—	—
Latchingdon ... ..	—	26	26
Mayland ... ..	—	12	12
Mundon ... ..	—	12	12
Purleigh ... ..	8	18	26
St. Lawrence ... ..	—	—	—
Southminster ... ..	14	28	42
Steeple ... ..	6	10	16
Stow Maries ... ..	—	12	12
Tillingham ... ..	—	6	6
Tollesbury ... ..	10	20	30
Tolleshunt D'Arcy ... ..	16	10	26
Tolleshunt Knights ... ..	—	10	10
Tolleshunt Major ... ..	4	12	16
Totham, Great ... ..	6	28	34
Totham, Little ... ..	—	6	6
Ulting ... ..	—	—	—
Wickham Bishops ... ..	8	25	33
Woodham Mortimer ... ..	—	6	6
Woodham Walter ... ..	—	12	12
TOTALS ... ..	89	323	412

The total is exclusive of six cottages erected by Parish Council in Tolleshunt D'Arcy; includes 6 Coastguard cottages (parlour) re-erected on a new site in Bradwell-on-Sea.

Nine cottages (non-parlour) purchased by Council (Wickham Bishops). 18 Agricultural cottages (parlour): Asheldham 4, Southminster 4, Steeple 6, Tolleshunt D'Arcy 4.

## PREVALENCE OF AND CONTROL OVER INFECTIOUS DISEASES.

### Notifiable Diseases (other than Tuberculosis) during 1945.

Two hundred and thirty-two cases of notifiable diseases (exclusive of Tuberculosis) were notified during the year as compared with 97 for the previous year. The increase is due to an outbreak of measles.

A number of persons who may have been in contact with Smallpox came into the District but fortunately no case occurred.

Notifiable Disease	Total Cases	Under 1	1-2	2-3	3-4	4-5	5-10	10-15	15-20	20-35	35-45	45-65	65 and over	Cases admitted to Hospital	Total Deaths
Acute Poliomyelitis...	1	—	—	—	—	—	—	—	1	—	—	—	—	1	—
Scarlet Fever ...	15	—	—	1	—	—	6	4	1	2	—	1	—	8	—
Diphtheria ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Measles ...	180	4	6	7	13	16	93	29	6	5	1	—	—	—	—
Pneumonia ...	11	—	1	—	—	—	3	1	—	1	1	2	2	1	1
Erysipelas ...	6	—	—	—	—	—	—	—	—	2	1	3	—	—	—
Whooping Cough ...	17	1	—	3	2	1	9	1	—	—	—	—	—	—	—
Jaundice ...	2	—	—	—	—	—	—	—	—	2	—	—	—	—	—
<b>TOTALS</b> ...	<b>232</b>	<b>5</b>	<b>7</b>	<b>11</b>	<b>15</b>	<b>17</b>	<b>111</b>	<b>35</b>	<b>8</b>	<b>12</b>	<b>3</b>	<b>6</b>	<b>2</b>	<b>10</b>	<b>1</b>

The incidence of notifiable diseases in the area during the year is set out in the above table and the local distribution on page 30.

**Immunisation.** It is hoped that more parents will take advantage of the facilities provided. Assistance was rendered by the Health visitors and teachers which is appreciated.

The percentage of children immunised at the end of 1945 based on the estimated population is shown in the following table.

DIPHTHERIA IMMUNISATION IN RELATION TO CHILD POPULATION.

	Number of children who had completed a full course of Immunisation at any time up to 31st December, 1945.						
	Under 1 1945	1 1944	2 1943	3 1942	4 1941	5 to 9 1936-1940	10 to 14 1931-1935
Age at 31.12.45 i.e. Born in year ...							Total Under 15
Number of children Immunised ...	7	69	86	134	160	784	2,059
Number of Births registered		255	193	205	201	854	2,804
Estimated mid-year popu- lation 1945 ...		1,010			1,850		
Percentage Immunised ...		45 %			86 %		
					71 %		



# DIPHTHERIA NOTIFICATIONS AND DEATHS IN RELATION TO IMMUNISATION

Age at date of Notification	NOTIFICATIONS		DEATHS		
	Number of cases Notified	Number of cases included in preceding column in which the child had completed a full course of immunisation	Age at date of Death	Number of Deaths	Number of cases included in preceding column in which the child had completed a full course of immunisation
Under 1					
1					
2					
3					
4					
5 to 9					
10 to 14					
Totals	Nil	Nil		Nil	Nil

## Tuberculosis.

### New Cases and Mortality during 1945.

Particulars are given in the following table of new cases of Tuberculosis and of deaths from the disease in the area during 1945.

Age Periods			* New Cases				Deaths			
			Respiratory		Non-Respiratory		Respiratory		Non-Respiratory	
			M.	F.	M.	F.	M.	F.	M.	F.
Under 1	...	...	—	—	—	—	—	—	—	—
1—5	...	...	—	—	1	—	—	—	—	—
5—10	...	...	—	—	2	—	—	—	—	—
10—15	...	...	—	—	1	—	—	—	—	—
15—20	...	...	—	—	—	—	—	—	—	—
20—25	...	...	1	—	—	—	—	—	—	—
25—35	...	...	3	2	—	—	1	1	—	—
35—45	...	...	2	—	—	—	—	—	—	—
45—55	...	...	1	—	—	—	—	—	—	—
55—65	...	...	1	—	—	—	1	—	—	—
65 and over	...	...	—	—	—	—	—	—	—	—
TOTALS	...	...	8	2	4	—	2	1	—	—

\* Not including cases of Tuberculosis removed into the district during the year which had been previously notified elsewhere.

# Distribution of Infectious Diseases, 1945

Table showing Local Distribution of Cases Notified during the year 1945.

PARISH	Acute Poliomyelitis	Cerebro-Spinal Fever	Scarlet Fever	Diphtheria	Measles	Whooping Cough	Pneumonia	Erysipelis	Jaundice	Pulmonary Tuberculosis	Other Forms of Tuberculosis	TOTALS
Althorne ...	—	—	1	—	20	—	1	—	—	1	—	23
Asheldham ...	—	—	—	—	1	—	—	—	—	1	—	2
Bradwell ...	—	—	—	—	3	—	1	—	—	1	—	5
Braxted, Great...	—	—	—	—	—	—	—	—	—	—	—	—
Braxted, Little...	—	—	—	—	—	1	—	—	—	—	—	1
Cold Norton ...	—	—	1	—	—	—	1	—	—	—	—	2
Dengie ...	—	—	—	—	6	—	—	—	—	—	—	6
Fambridge, N.	—	—	—	—	—	2	—	—	—	—	—	2
Goldhanger ...	—	—	1	—	1	—	—	1	—	—	—	3
Hazeleigh ...	—	—	—	—	—	—	—	—	—	—	—	—
Langford ...	—	—	—	—	3	—	—	—	—	—	—	3
Latchingdon ...	—	—	—	—	21	—	1	—	—	—	—	22
Mayland...	—	—	—	—	9	—	1	—	—	1	—	11
Mundon ...	—	—	—	—	12	—	1	1	—	1	—	15
Purleigh ...	—	—	4	—	4	—	1	2	—	2	—	13
Southminster ...	—	—	—	—	40	—	1	—	—	—	—	41
Steeple ...	—	—	—	—	18	1	—	—	—	—	—	19
St. Lawrence ...	—	—	—	—	1	—	—	—	—	—	—	1
Stow Maries ...	—	—	1	—	1	—	—	—	—	—	—	2
Tillingham ...	—	—	—	—	6	—	—	—	—	—	—	6
Tollesbury ...	—	—	1	—	—	—	—	—	—	1	1	3
Tolleshunt D'Arcy ...	—	—	2	—	—	—	—	—	—	1	—	3
Tolleshunt Knights ...	—	—	—	—	—	—	—	—	—	—	—	—
Tolleshunt Major ...	—	—	—	—	3	1	—	—	—	—	—	4
Totham, Great ...	1	—	2	—	8	3	1	—	2	—	—	17
Totham, Little ...	—	—	—	—	9	2	—	—	—	—	—	11
Ulting ...	—	—	—	—	1	—	1	—	—	—	1	3
Wickham Bishops ...	—	—	2	—	10	2	—	—	—	2	—	16
Woodham Mortimer ...	—	—	—	—	3	—	—	—	—	—	—	3
Woodham Walter ...	—	—	—	—	—	5	1	2	—	—	3	11
TOTALS ...	1	—	15	—	180	17	11	6	2	11	5	248



**Table showing Census Population 1921 and 1931, and  
Number of Houses Census 1931 and December, 1945.**

PARISH	Area in statute acres (land and inland water)	Tidal water and fore- shore	Num- ber of Houses 1931	Census Population		Number of Houses at end of Dec. 1945
				1921	1931	
Althorne ... ..	2080	255	117	401	390	156
Asheldham ... ..	1310	—	42	203	168	47
Bradwell-on-Sea ...	5221	4230	188	747	657	243
Braxted Great ... ..	2634	—	85	283	282	103
Braxted Little ... ..	622	—	36	109	116	44
Cold Norton ... ..	1692	—	102	326	384	129
Dengie ... ..	2856	1186	54	181	192	48
Fambridge North...	1242	107	50	177	168	93
Goldhanger ... ..	1622	—	107	361	353	139
Hazeleigh ... ..	991	—	33	121	114	37
Langford ... ..	991	3	49	167	169	49
Latchingdon ... ..	3992	207	122	420	419	231
Mayland ... ..	1870	—	99	343	360	146
Mundon ... ..	3076	—	60	269	251	79
Purleigh ... ..	5771	87	223	857	770	291
St. Lawrence ... ..	2139	324	20	132	71	90
Southminster ... ..	6512	828	439	1592	1403	475
Steeple ... ..	2709	47	94	391	343	113
Stow Maries ... ..	1610	82	48	147	165	53
Tillingham ... ..	4928	2593	211	836	670	243
Tollesbury ... ..	4839	2019	467	1721	1694	543
Tolleshunt D'Arcy...	4104	415	236	780	748	253
Tolleshunt Knights	1926	—	294	235	252	135
Tolleshunt Major ...	2253	2	96	338	370	121
Totham Great ... ..	3589	—	251	973	982	359
Totham Little ... ..	1281	—	85	301	293	84
Ulting ... ..	1034	—	37	144	143	46
Wickham Bishops...	1606	—	191	498	639	245
Woodham Mortimer	1387	—	69	229	268	85
Woodham Walter ...	2620	—	141	612	514	159
TOTALS ... ..	78507	12385	4046	13894	13348	4839

